



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO042027	SAB002-VC	1	1	Net 30	MUHMWB1.750X1.000X120.00	UHMW, Black, 1.750 X 1.000 X 120.00 : Trivar 1000 Black Sheet Plated 2 Sides +/-010 Manufacturer: Poly Hi Soldur/Quadrant Plastics				23	1/11/2019	23		\$143388	Stock	1/9/2019	\$ 103.48 / Ea	1		\$2,380.00	Polymershapes Distribution Canada Inc.
										Total:		23								\$1,800.10	

Plex 1/10/2019 8:16 AM Dart Duval Patrick



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO042027

Supplier: SAB002-VC
Polymershapes Distribution Canada Inc.
1665 55th Avenue
Dorval
QC
H9P 2W3 Canada
Phone: 514 422 1048
Fax: 514 422 1055

PO No: PO042027

PO Date: 12/12/18

Due Date: 1/29/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
DEC 12 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: cutting charge included in pricing.

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 <i>AT</i>		MUHMWB1.750X1.000X120.00		UHMW, Black, 1.750 X 1.000 X 120.00 : Trivar 1000 Black Sheet Planed 2 Sides +/- .010 Manufacturer: Poly Hi Soldur/Quadrant Plastics	Firmed	-	1/29/19	23 Ea <i>✓ 23x</i>	0 Ea	23 Ea <i>AT 12/1/18</i>	\$103.47826/Ea	\$2,380.00

Line Item Note: 1 sheet 1.750" x 48" x 120" will make 23 pcs cut to dimension 1.750"x 1.000"

Grand Total: \$2,380.00

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/12/18 9:01 AM dart.lavoie.chantal

Chantal Lavoie

From: Olga Kuchyna <okuchyna@polymershapes.com>
Sent: Monday, December 10, 2018 9:37 AM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

As per your request, here is the price and lead time:

Acetron GP Black Sheet

1 sheet 1" x 24" x 48" @ \$550.00/sheet

Cut to 5 pcs 4" x 48"

Cutting Charge \$30.00 1.50\$

Lead time: 2 weeks

Acetron GP Black Rod

128 feet .750 dia. X 8 feet @ \$2.40/ft.

Lead time : 2 weeks

Lexan 9034 Clear

2 sheets .118 x 48" x 96" @ \$110.00/sheet

Material in stock

Tivar 1000 Black Sheet Planed 2 sides +/- .010

1 sheet 1.750 x 48" x 120" @ \$2320.00/sheet

Cut to 23 pieces 1" x 120"

Cutting charge \$60.00

Lead time: 4 -5 weeks

2320.00\$

Prices in CAD Funds

Thank you,

Olga Kuchyna

Représentante Ventes Internes / Service à la Clientèle

Polymershapes Distribution Canada Inc.

1665 55ième Avenue

Dorval, QC, H9P 2W3

T: 514-422-1048

F: 514-422-1055

E: okuchyna@polymershapes.com

W: www.polymershapes.com **NOUVEAU!!!!**

Polymershapes Montréal est certifié AS9120B:2016, EN9120B:2016, JISQ9120:2016 et ISO9001:2015.

À moins qu'il en soit convenu autrement dans un document signé par les deux parties, toute vente par Polymershapes (« Polymershapes ») est effectuée exclusivement aux termes et conditions de vente standard de Polymershapes, qui peuvent être obtenues sur demande et en ligne à l'adresse www.polymershapes.com. POLYMERSHAPES NE DONNE AUCUNE GARANTIE, EXPRESSE OU IMPLICITE QUANT AUX RÉSULTATS, À L'EFFICACITÉ OU À LA SÉCURITÉ DE L'UTILISATION DE SES PRODUITS POUR TOUTE APPLICATION PAR SES CLIENTS. Aucune disposition du présent document ou de tout autre document, ni aucune recommandation ou aucun conseil verbal, ne sera réputé modifier, faire varier, remplacer ou annuler toute disposition des Conditions Standards de Vente ou de la présente exclusion de responsabilité. Aucun énoncé figurant aux présentes relativement à l'utilisation éventuelle ou suggérée de tout matériau, produit, service ou conception n'a pour but d'accorder, ni ne doit être interprété comme accordant, une licence sur les droits de brevet ou d'autres droits de propriété intellectuelle de Polymershapes ou de l'une de ses filiales ou d'un membre de son groupe couvrant cette utilisation ou cette conception, et ne doit pas être interprété comme une recommandation relative à l'utilisation de ce matériau, produit, service ou conception en violation d'un droit de brevet ou d'un autre droit de propriété intellectuelle.

From: Chantal Lavoie [mailto:clavoie@dartaero.com]
Sent: Friday, December 7, 2018 9:18 AM
To: Olga Kuchyna <okuchyna@polymershapes.com>
Subject: quote

Good morning Olga,
Please advise price and delivery on mat'l.

Delrin color black bar 1" x 4" x 8 ft

Delrin color black round bar 0.750" x 128 ft

Lexan clear sheet .125" (9034-01) x 64 sf

Uhmw bar 1.750" x 1.000" x 23 pcs (1 sheet) same as last po039418

Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

DART AEROSPACE
T 1 613 632-5200
F 1 613 632-1053
E clavoie@dartaero.com
1 800 556-4166
www.dartaerospace.com



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Expédier à:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A 1K7
CANADA
téléphone - 1 (613) 6325200

Facturer à:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A 1K7
Canada

BORDEREAU D'EXPÉDITION

BON DE COMMANDE:

DATE: 08-JAN-2019
ENTREPÔT POLYMERSHAPES - MONTREAL QC
Dorval, QC, H9P 2W3, CA.,

COMMANDE: 93039474
BON DE COMMANDE: PO042027
TÉL. DE LA PERSONNE-RESSOURCE: 0014005000120

MODALITÉS DE PAIEMENT: CA NET 30
F.A.B.
Collect Freight REPRESENTANT: MONTREAL HOUSE

DATE DE LA COMMANDE: 12-DEC-18
NOM POUR LIVRAISON: 50839784

N° DE CONNAISSANCE JOURNEY
TRANSPORTEUR DE MARCHANDISES: CUSTOMER CHOICE - REVIEW NOTES

COMMENTAIRE SUR FRAIS DE TRANSPORT:

NUMÉRO DE PIÈCE / DESCRIPTION DE L'ARTICLE

1 54413104-C
UHMW SH 1.750 48.00 X 120.00 BK EX 1 TIVAR 1000
INSTRUCTIONS SPÉCIALES: PLANED 2 SIDES +/- .010 CUT TO 23 PCS. 1" X 120"
C OF C REQUIRED
Numéros de LOT:
(1 Qté)

CUT SIZE W/ID : 48.00
CUT SIZE L/OD : 120.00

2 99400996
CUTTING CHARGE
INSTRUCTIONS SPÉCIALES:
Numéros de LOT:
(1 Qté)

CUT SIZE W/ID : 48.00
CUT SIZE L/OD : 120.00

CATÉGORIE	NUMÉRO DE PIÈCE / DESCRIPTION DE L'ARTICLE	DATE D'EXPÉDITION	QTE COMMANDEE	QTE EXPÉDIEE	QTE NON EXPÉDIEE	UDM
1	54413104-C UHMW SH 1.750 48.00 X 120.00 BK EX 1 TIVAR 1000 INSTRUCTIONS SPÉCIALES: PLANED 2 SIDES +/- .010 CUT TO 23 PCS. 1" X 120" C OF C REQUIRED Numéros de LOT: (1 Qté)			1	0	EA
2	99400996 CUTTING CHARGE INSTRUCTIONS SPÉCIALES: Numéros de LOT: (1 Qté)			1	0	EA

REÇU EN BON ÉTAT

Signé:

Date:

À moins qu'il en soit convenu autrement dans un document signé par les deux parties, toute vente par Polymershapes est effectuée exclusivement aux termes des conditions de vente standard de Polymershapes, qui peuvent être obtenues sur demande et en ligne à l'adresse www.polymershapes.com. BIEN QUE LES RENSEIGNEMENTS, LES RECOMMANDATIONS OU LES CONSEILS FIGURANT AUX PRÉSENTES SOIENT DONNÉS DE BONNE FOI, POLYMERSHAPES NE DONNE AUCUNE GARANTIE, EXPRESSE OU IMPLICITE, QUANT AUX RÉSULTATS, À L'EFFICACITÉ OU À LA SÉCURITÉ DE TOUTE CONCEPTION CONTENANT DES PRODUITS, MATÉRIAUX, SERVICES, RECOMMANDATIONS OU CONSEILS DE POLYMERSHAPES. SAUF TEL QU'IL EST INDIQUÉ DANS LES CONDITIONS DE VENTE STANDARD DE POLYMERSHAPES, POLYMERSHAPES ET SES REPRÉSENTANTS NE SONT EN AUCUN CAS RESPONSABLES DE TOUTE PERTE DÉCOULANT DE L'UTILISATION DE SES MATÉRIAUX, PRODUITS OU SERVICES DÉCRITS AUX PRÉSENTES

Chaque utilisateur assume l'entière responsabilité de ses décisions quant au caractère convenable des produits, des matériaux, des services, des recommandations ou des conseils pour sa propre utilisation. Chaque utilisateur doit identifier et effectuer tous les tests et analyses nécessaires pour s'assurer que ses pièces finies contenant des produits, matériaux ou services achetés de Polymershapes seront sûres et pourront être utilisées dans des conditions d'utilisation finales. Aucune recommandation ou aucun conseil verbal, ne sera réputé modifier, faire varier, remplacer ou annuler toute disposition des conditions de vente de Polymershapes ou de la présente exclusion de responsabilité, à moins que cette modification ne soit précisément acceptée dans un écrit signé par Polymershapes. Aucun énoncé figurant aux présentes relativement à l'utilisation éventuelle ou suggérée de tout matériau, produit, service ou conception n'a pour but d'accorder, ni ne doit être interprété comme accordant, une licence sur les droits de brevet ou d'autres droits de propriété intellectuelle de Polymershapes ou de l'une de ses filiales ou d'un membre de son groupe couvrant cette utilisation ou cette conception, et ne doit pas être interprété comme une recommandation relative à l'utilisation de ce matériau, produit, service ou concept en violation d'un droit de brevet ou d'un autre droit de propriété intellectuelle.

Rapport de fin de

Certificate of Conformance

1665 55th Avenue
Dorval, Quebec,
H9P 2W3

Date: January 8, 2019

Attn: RECEIVING DEPARTMENT

To: DART AEROSPACE LTD.

Address: 1270 ABERDEEN STREET
HAWKESBURY, ON.

Customer P.O. Number: PO042027

Sales Order No: 93039474

Manufacturer's Reference: 0002425927

Our Reference: MTL-107972

It is hereby certified that, to the best of Polymershapes Distribution Canada knowledge, the product information provided below conforms to the corresponding information in the possession of Polymershapes Distribution Canada with respect to such products. This certification and the sale of products are, unless otherwise agreed to in writing, subject to Polymershapes Distribution Canada standard conditions of sale. This document shall not be reproduced, except in full, without prior written approval.

Quantity	Description	Lot Number/Spec.
1 SHT	UHMW SH 1.750 48X120 BK EX TIVAR 1000 PLANED 2 SIDES +/-0.010	00092431873 ASTM D4020

Polymershapes Canada Distribution Inc.

By:



Title:

Quality Coordinator

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QUADRANT
ENGINEERING PLASTIC PRODUCTS

Quadrant EPP USA, Inc.
2120 Fairmont Avenue, P.O. Box 14235
Reading, PA 19612-4235
Phone 610-320-6600

Ship to:

Polymershapes - Dorval
1665 - 55th Avenue

Dorval, QUE H9P 2W3
Canada

Consignee: 0002000430

Sold to:

Polymershapes - Dorval
1665, 55 Avenue

Dorval, QUE H9P 2W3
Canada

Delivery address: 1A
Delivery No: 10324052

Declaration of compliance with the order according EN 10204 - 2.1

TIVAR 1000 PLATE BLACK

1.75 x 48 x 120 IN

PLANED 2 SIDES, +/- .010

Item No: 03010111838

Lot: 0092431873

Ship date: 01/04/19

Original Production Lot: 0010037702

Date of MFG: 12/28/18

Qty: 1.00 PC

Supplied against purchase order number: MTL-107972

Quadrant Order No: 0002425927

Product is known as ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE with a pigment additive.

Base resin meets ASTM D4020 with a molecular weight of 3.0 to 6.2 million G/Mol.

For specific details related to regulatory compliance, see Quadrants Regulatory Letter for this material, which is available upon request.

We hereby certify that the goods described above comply with the terms of the order contract and conform to our Product Specifications. The Quality Management System of the Quadrant EPP plants in Reading, PA, Scranton, PA, Wytheville, VA, Delmont, PA and Ft. Wayne, IN are certified according to ISO 9001. The ISO Certificate is available upon request.

CERTIFIED BY: Eric Weir
FUNCTION: Product Specification & Certification Engineer
E-MAIL: eric.weir@qplas.com
DATE: 01/04/19
DIGITAL SIGNATURE 

PURCHASE MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL
MANUFACTURER: POLY HI SOLDUR/QUADRANT PLASTICS
THICKNESS - TOLERANCE: +0.030"/NO MINUS

PART NUMBER: MUHMW C | TTT | WHERE TTT = THICKNESS IN 1/100 INCHES Δ
C = COLOUR (B = BLACK)
(W = WHITE)

EG. 1.000" UHMW BLACK TIVAR 1000 = MUHMWB100
1.250" UHMW BLACK TIVAR 1000 = MUHMWB125

MINIMUM MATERIAL PROPERTY VALUES
*REFERENCE DART REPORT DR-1041

YIELD TENSILE 2900 PSI
ULTIMATE TENSILE 4600 PSI
YIELD SHEAR 2200 PSI
ULTIMATE SHEAR 3500 PSI
YIELD BEARING 2800 PSI
ULTIMATE BEARING 4200 PSI
FLEXURAL MODULUS 105000 PSI

RELEASED
R 12/10/26 4
ECN 12-672

C	INCREASED ACCURACY OF PART NUMBER THICKNESS, TTT WAS TT	AP	12.09.27
B	REFORMAT ADDED MATERIAL REQUIREMENTS FROM D2689 MANUFACTURER UPDATED (SEE PAR 11-105)	AJS	11.06.09
A	NEW ISSUE	RF	05.03.31
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	AP		
CHECKED	4		
MFG. APPR.	N/A		
APPROVED	4		
DE APPR.	4		
DATE	12.09.27		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C SHEET 1 OF 1	
TITLE UHMW SHEET		SCALE NONE	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MUHMWR 1.750x1000x120.00

PO / BATCH NO.: PO042027 / S143388

DATE: 19/01/09

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.750"

QUANTITY RECEIVED: 23x

THICKNESS RECEIVED: 1.750"

QUANTITY INSPECTED: 23x

SHEET SIZE ORDERED: 4'x10'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4'x10'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>MUHMWR</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>PO042027</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 61</u> DATE: <u>19/01/09</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in